Claims

[c1]

I claim:

1. A device consisting of a hollow outer half-cylinder, and an inner half-cylinder that can rotate around a common center for both the inner and outer half-cylinders, wherein a top surface of the hollow outer half-cylinder and a top surface of the inner half cylinder can be rotated to form a circle's circumference, with individual slices that can be attached to the inner half cylinder making a complete 360-degrees cylinder, the hollow outer half-cylinder having marked off units around the 180 degrees of the hollow outer half-cylinder.

[c2]

2. Cancelled.

[c3]

3. A device of claim 1, wherein the hollow outer half-cylinder show the equations for the circle's circumference and area, the arc length and sector area, the outer surface area of the cylinder and identifies the radius.

[c4]

4. A device of claim 1, wherein the inner half-cylinder, has marked off units around the 180 degrees of the inner half-cylinder.

[c5]

5. A device of claim 1, wherein the inner half-cylinder, show the equations for the volume of the cylinder and of a slice, the front surface area of the slice, and the side surface area of the slice and identifies the radius and height.

[c6]

6. A device of claim 1, wherein the Individual slice, show the equations for the volume of a slice, the front surface area of the slice, the side surface area of the slice and identifies the angle (θ) of the slice, the radius (r) and the height of the slice (L).

[c7]

7. A device of claim 1, wherein the Individual slices, have different angles and numerical values for the radius and height of the slice, the actual values of the arc length, the sector area, the volume of a slice, the front surface area of the slice, and the side surface area of the slice.

[c8]

8. Cancelled